

IHO ENC Maintenance Working Group

Report of the Nautical Cartography WG

Mikko Hovi, Chair NCWG



Main Tasks

- Maintain and extend S-4
- Develop new and revised symbology
- Maintain INT1, INT2, INT3
- Maintain and extend S-11 Part A
- Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 Product Specifications



Membership and Meetings

- Membership

- 29 Member States

AR, AU, BR, CA, DK, EE, FI, FR, DE, GR, IN, ID, IR, IT, JP, KR, LV, NL, NZ, NO, PK, RU, ZA, SP, SE, TR, UA, UK, US

- 3 Expert Contributor Organizations

ESRI, C-MAP, ICA

- Meetings

- NCWG4, 6 - 9 November 2018 , The Hague, NL

- Next meeting NCWG5, 5 - 8 November 2019, Stockholm, SE



S-4

- Edition 4.8.0 published, October 2018
 - Available in English, French and Spanish
- Revised clauses include
 - Extended use of 'yacht' symbol
 - New islet symbol
 - Magnetic variation
 - Planes of reference
- Deleted clause
 - LORAN



S-4 (2)

- Clarifications include clauses on
 - Colour of floodlighting
 - Anchor berths
 - Limits of larger scale (ENC) chart
 - Compass roses
- Identified impacts on ENC
 - Possibility to indicate colour of the floodlighting is missing in S-57 and S-101
 - Clarified clause in S-4 says

B-478.2 Floodlighting of a structure [...], should be indicated by the symbol **P63**. The symbol must normally be in magenta or may be in an appropriate colour on ‘multicoloured’ charts where the colour is known and constant.



S101PT is requested:

- Discuss and agree on how to encode colour of floodlighting in S-101



Topics discussed at NCWG4

- Topics considered included
 - Submarine cables (ICPC) (*will effect DCEG 14.2.1*)
 - Satellite derived bathymetry
 - Ballast water management areas
 - Offshore solar parks (*see S101PT4-5.1*)
 - Portrayal of pilot boarding areas on ECDIS
 - Minimum size of isolated shoals
 - Fixed-and-flashing light characters (*will likely effect attribute 'light characteristic'*)
 - INT1 Section V Data Quality
 - Study on regional ENC scheming, case Caribbean Sea
 - Marine incidents – alarm fatigue
 - Distinction between foul ground and obstruction



Topics discussed at NCWG4 (2)

- Topics considered included

- Seagrass in ENC

- S-4 ed 4.7.0 made a clear distinction between seagrass (plants) and seaweed/kelp (algae)
 - S-101 Feature class Weed/kelp is used
 - S-101 Attribute category of weed/kelp (CATWED) supports this distinction
 - DCEG 12.2 lacks missing a reference to new INT1 symbol J13.3 Seagrass
 - DCEG 12.2.1 does not mention seagrass at all

- Marine incidents – alarm fatigue

- Grounding of the “Muros” on its way from Teesport, UK to Rochfort, France
 - Check route function resulted to more than 3000 warnings



S101PT is requested:

- Consider amending DCEG 12.2 to cover seagrass separately from weed and kelp
- Discuss means to reduce false alarms on ECDIS through improved encoding practices



S-4 supplementary publications INT 1, 2 & 3

- INT1
 - English version (DE), Edition 9, October 2018
 - French version (FR), Edition 6, April 2016
 - Spanish version (ES), Edition 6, April 2018
 - New Section V on data quality under consideration
 - Included now in UK NP5011
- INT2, Edition 4, 2007 (NL)
- INT3, Edition 5, 2011 (UK)



S-11 Part A

- Current edition 3.1.0 (February 2018)
- Possible future tasks include revising Section 200 ‘Guidance for the Preparation and Maintenance of ENC Schemes’ to cover also S-101 ENCs
 - Current edition talks specifically about S-57 ENC



Other topics

- The future of the paper chart
 - Preliminary report delivered to HSSC11
 - MS Survey conducted in the upcoming months
 - Final report to be delivered for HSSC12 (May 2020)
- Missing S-101 symbols
 - Task to draft symbols for S-101 features that do not inherit one from S-57/S-52



Actions requested of S101PT

- ENCWG is invited to
 - **Note** this report
 - **Discuss and agree** on how to encode colour of floodlighting in S-101
 - **Consider** amending DCEG 12.2 to cover seagrass separately from weed and kelp
 - **Discuss** means to reduce false alarms on ECDIS through improved encoding practices

